

FORESIGHT ENGINEERING SERVICES

"Practical, reliable and efficient engineering solutions"

PUMPS AND PIPING NETWORKS

Foresight Engineering offers a range of consulting services for Pumps and Piping Networks. From preliminary conceptual studies to detailed fabrication drawings, Foresight Engineering can optimise your pump and piping systems for maximum efficiency, reliability and capacity. With a strong foundation in civil and mining projects, Foresight can manage the entire project from feasibility through to construction and commissioning.

PUMP AND PIPING EQUIPMENT

Foresight Engineering can design new systems, modify existing systems or optimise your current equipment.

- Pressure pipework and fittings e.g. Mild Steel, SS304/316, HDPE, PVC, PP-h, PVDF, PTFE.
- Pumps and pumping infrastructure.
- Tanks, Vessels and drainage systems.
- In-ground pits and sumps.
- Mixing and agitation systems.
- Pigging stations.
- Instrumentation and process control.
- Venting and priming systems.
- Hazardous Area equipment.
- Hydraulic power units and pipework.

PUMP AND PIPING DESIGN AND ANALYSIS

Foresight Engineering offers a range of services for pump and pipeline systems.

- Full design of collection and pumping systems and associated pipework equipment.
- Facility compliance assessments for Hazardous Substances e.g. corrosives, flammables.
- Experience with difficult mediums e.g. abrasive slurries, corrosives.
- Tank design and inspection e.g. AS1692, API650.
- Pump and impellor selections.
- Computer modelling of complex piping networks.
- Optimisation and efficiency modelling including power reduction strategies.
- Troubleshooting of existing systems.
- Filtration, screening, agitation and venting systems.
- pH control and monitoring systems.

INDUSTRY EXAMPLES

Examples of projects previously undertaken by Foresight Engineering's personnel include:

- Computer modelling of complex pump network for an Abalone farm (Seawater).
- Design of a 40m floating pumping pontoon for a mineral sands tailing dam (low ph water).
- Design of various pump systems for flammable liquids (Solvents within Hazardous Areas).
- Design of storage and truck loading system for an acid slurry by-product (Fluorosilicic Acid).
- Feasibility engineering to upgrade a cooling tower system at an Aluminium Smelter.

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